BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements of Roads and Drains in Amruthanagara 'c' Sector in Ward No. 07 Byatarayanapura, Kodigehalli Sub Division.**

			Estimate Cost:					5000000.00	
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	Removing B.S. Slab Drain and stacking **(P. 25 / I. 5.32 PWD SR - 2014-15)**	Sqm							
	Amurthahalli Police Station Road		2	166.00		1.65	547.80		
	6th Cross		2	55.00		1.65	181.50		
	7th Cross		2	60.00		1.65	198.00		
	8th Cross		2	55.00		1.65	181.50		
	4th Cross		2	250.00		1.65	825.00		
	5th Cross		2	124.00		1.65	409.20		
	Cross Road		2	24.00		1.65	79.20		
			2	30.00		1.65	99.00		
			2	32.00		1.65	105.60		
	Centre Main Road		2	164.00		1.65	541.20		
	1st Cross		1	100.00		1.65	165.00		
	3rd Cross		1	102.00		1.65	168.30		
							3501.30	58.32	**204196.00**
	Basic Rate	54.00							
	Area Weightage @8%	4.32							
	Total	**58.32**							
2	Refixing stone slabs of drains and pointing in CM (1:3) **(P. 25 / I. 5.33 PWD SR - 2014-15)**	Sqm							
			Vide Item No.1*80%				**2801.04**	75.60	**211759.00**
	Basic Rate	70.00							
	Area Weightage @ 8%	5.60							
	Total	**75.60**							
3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete7.5 cms thick **Page No. 25 / Item No. 5.31.1/ PWD SR 2014-15**	Sqm							
			Vide Item No.1*20%				**700.26**	639.36	**447718.00**
	Basic Rate	592.00							
	Area Weightage @ 8%	47.36							
	Total	**639.36**							
4	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 138 / Item No. 19.1 / PWD SR 2014-15**	Cum							
	Amurthahalli Police Station Road		1	166.00	0.60	0.35	139.44		
	6th Cross		1	55.00	0.60	0.35	46.20		
	7th Cross		1	60.00	0.60	0.35	12.60		
	8th Cross		1	55.00	0.60	0.35	11.55		
	4th Cross		1	250.00	0.60	0.35	52.50		
	5th Cross		1	124.00	0.60	0.35	26.04		

	Cross Road		1	24.00	0.60	0.35	5.04		
			1	30.00	0.60	0.35	6.30		
			1	32.00	0.60	0.35	6.72		
	Centre Main Road		1	164.00	0.60	0.35	34.44		
	1st Cross		1	100.00	0.60	0.30	18.00		
	3rd Cross		1	120.00	0.60	0.30	21.60		
	Cross Road		1	13.00	0.60	0.30	2.34		
							381.96	75.60	**28876.00**
	Basic Rate	70.00							
	Area Weightage @8%	5.60							
	Total	**75.60**							
5	KSRRB M 300-52.1: Scarifying the existing granular road surface to a depth of 50mm and disposal of scarified materials within all lifts and leads upto 1000 meters complete as per specifications. MORTH specification No. 305.4.3, **Page No. 144 / Item No. 19.58 / PWD SR 2014-15**	Sqm							
	Amurthahalli Police Station Road		1	166.00	6.00		996.00		
	6th Cross		1	55.00	4.20		231.00		
	7th Cross		1	60.00	4.20		252.00		
	8th Cross		1	55.00	4.50		247.50		
	4th Cross		1	250.00	6.00		1500.00		
	5th Cross		1	124.00	4.50		558.00		
	Cross Road		1	24.00	4.50		108.00		
			1	30.00	5.20		156.00		
			1	32.00	6.20		198.40		
	Centre Main Road		1	164.00	5.00		820.00		
	1st Cross		1	100.00	5.00		500.00		
	3rd Cross		1	120.00	6.00		720.00		
	Cross Road		1	13.00	6.10		79.10		
							6366.00	18.36	**116880.00**
	Basic Rate	17.00							
	Area Weightage @ 8%	1.36							
	Total	**18.36**							
6	KSRRB 300-58: **Compaction of original ground with maximum** of 6 passes of 8 to 10 tonnes power roller including filling in depression occurring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH chapter 3, **No.145 / Item No. 19.64 / PWD SR 2014-15**	Sqm							
	Amurthahalli Police Station Road		1	166.00	6.00		996.00		
	6th Cross		1	55.00	4.20		231.00		
	7th Cross		1	60.00	4.20		252.00		
	8th Cross		1	55.00	4.50		247.50		
	4th Cross		1	250.00	6.00		1500.00		
	5th Cross		1	124.00	4.50		558.00		
	Cross Road		1	24.00	4.50		108.00		
			1	30.00	5.20		156.00		
			1	32.00	6.20		198.40		
	Centre Main Road		1	164.00	5.00		820.00		
	1st Cross		1	100.00	5.00		500.00		
	3rd Cross		1	120.00	6.00		720.00		
	Cross Road		1	13.00	6.10		79.10		

							6366.00	4.48	**28532.00**
	Basic Rate	4.15							
	Area Weightage @ 8%	0.33							
	Total	**4.48**							
7	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications **(P. 170 / I. 20.18) PWD SR - 2013-14**	Cum							
	Amurthahalli Police Station Road		1	166.00	6.00	0.20	199.20		
	6th Cross		1	55.00	4.20	0.20	46.20		
	7th Cross		1	60.00	4.20	0.20	50.40		
	8th Cross		1	55.00	4.50	0.20	49.50		
	4th Cross		1	250.00	6.00	0.20	300.00		
	5th Cross		1	124.00	4.50	0.20	111.60		
	Cross Road		1	24.00	4.50	0.20	21.60		
			1	30.00	5.20	0.20	31.20		
			1	32.00	6.20	0.20	39.68		
	Centre Main Road		1	164.00	5.00	0.20	164.00		
	1st Cross		1	100.00	5.00	0.20	100.00		
	3rd Cross		1	120.00	6.00	0.20	144.00		
	Cross Road		1	13.00	6.10	0.20	15.82		
							1273.20	1438.56	**1831575.00**
	Basic Rate	1332.00							
	Area Weightage @ 8%	106.56							
	Total	**1438.56**							
8	Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.60 Kg / sqm using mechnical means complete as per specifications. MORTH specification NO. 502, **Page No. 157 / Item No. 21.6 / PWD SR 2014-15**	Sqm							
			Qty Vide Item No. 6				**6366.00**	38.03	**242079.00**
	Basic Rate	35.21							
	Area Weightage @ 8%	2.82							
	Total	**38.03**							
9	KSRRB M500-18: Providing and laying semi dense bituminous concrete 25mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specificationsWith 60/70 grade bitumen using 40-60 HMP, **No. 159 / Item No. 21.20.5 / PWD SR 2014-15**	Cum							

	Amurthahalli Police Station Road		1	166.00	6.00	0.025	24.90		
	6th Cross		1	55.00	4.20	0.025	5.78		
	7th Cross		1	60.00	4.20	0.025	6.30		
	8th Cross		1	55.00	4.50	0.025	6.19		
	4th Cross		1	250.00	6.00	0.025	37.50		
	5th Cross		1	124.00	4.50	0.025	13.95		
	Cross Road		1	24.00	4.50	0.025	2.70		
			1	30.00	5.20	0.025	3.90		
			1	32.00	6.20	0.025	4.96		
	Centre Main Road		1	164.00	5.00	0.025	20.50		
	1st Cross		1	100.00	5.00	0.025	12.50		
	3rd Cross		1	120.00	6.00	0.025	18.00		
	Cross Road		1	13.00	6.10	0.025	1.98		
							159.15	8898.12	**1416158.00**
	Basic Rate	8239.00							
	Area Weightage @ 8%	659.12							
	Total	**8898.12**							
10	KSRRB M800-13: Road marking with hot applied thermoplastic compound with reflect rising glass beads on bituminous surface- providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface to level, uniform and free from streaks and holes complete as per specifications. MORTH specification No. 803, **No. 178 / Item No. 24.15 PWD SR 2014-15**	Sqm							
	Amurthahalli Police Station Road		2	166.00	0.10		33.20		
	6th Cross		2	55.00	0.10		11.00		
	7th Cross		2	60.00	0.10		12.00		
	8th Cross		2	55.00	0.10		11.00		
	4th Cross		2	250.00	0.10		50.00		
	5th Cross		2	124.00	0.10		24.80		
	Cross Road		2	24.00	0.10		4.80		
			2	30.00	0.10		6.00		
			2	32.00	0.10		6.40		
	Centre Main Road		2	164.00	0.10		32.80		
	1st Cross		2	101.00	0.10		20.20		
							212.20	475.20	**100837.00**
	Basic Rate	440.00							
	Area Weightage @ 8%	35.20							
	Total	**475.20**							
11	KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, **in ordinary soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, **Page No. 5 / Item No. 2.3 / PWD SR 2014-15**	Cum							
			4	8.00	1.80	0.900	51.84		
							51.84	176.04	**9126.00**

	Basic Rate	163.00							
	Area Weightage @ 8%	13.04							
	Total	**176.04**							
12	KSRB 4-1.2 : Providing and laying in position **plain cement concrete of mix M10 with OPC cement @ 180 Kgs** using **40mm** and down size graded granite metal, corse aggregates @ 0.85 cum and fine aggregtes @ 0.58cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, **in foundation and plinth**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 **Page No. 12 / Item No. 4.2 PWD SR - 2014-15**	Cum							
			4	8.00	1.80	0.15	8.64		
							8.64	5064.12	**43754.00**
	Basic Rate	4689.00							
	Area Weightage @ 8%	375.12							
	Total	**5064.12**							
13	KSRB 5.2-3: Providing and constructing granite / trap / basalt size stone masonry in **Foundation with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 **Page No. 23 / Item No. 5.6 / PWD SR 2014-15**	Cum							
	Culvert		4x2	8.00	0.60	0.60	**23.04**	3836.16	**88385.00**
	Basic Rate	3552.00							
	Area Weightage @ 8%	284.16							
	Total	**3836.16**							
14	KSRB 4-6.1 : Providing and **removing centering, shuttering, strutting, propping etc.,** and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications.Specification NO. KBS 4.6.2 **Page No. 15 / Item No. 4.28 / PWD SR 2014-15**	Sqm							
	Culvert		4	8.00	0.60		19.20		
			8	6.00		0.23	11.04		
			8	1.80		0.23	3.31		
							33.55	236.52	**7936.00**
	Basic Rate	219.00							
	Area Weightage @ 8%	17.52							
	Total	**236.52**							

15	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 18 / Item No. 4.49.1 / PWD SR 2014-15**	Cum							
	Bottom		4	8.00	1.80	0.23	13.25		
							13.25	5847.12	**77463.00**
	Basic Rate	5414.00							
	Area Weightage @ 8%	433.12							
	Total	**5847.12**							
16	KSRB 4.9.2: Providing **TMT steel reinforcement for R.C.C** work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **Page No. 17 / Item No. 4.46 PWD SR 2014-15**	Qntl							
	100 Kg / Cum		0.10	13.25			**1.32**	78351.84	**103801.00**
	Basic Rate	72548.00							
	Area Weightage 8%	5803.84							
	Total	**78351.84**							
17	KSRB 15.1.3: Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications cement mortar 1:4. **Page No. 109 / Item No. 15.3 / PWD SR 2014-15**	Sqm							
			4	8.00		0.60	19.20		
							19.20	92.88	**1783.00**
	Basic Rate	86.00							
	Area Weightage @ 8%	6.88							
	Total	**92.88**							
18	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
			Vide Item No. 1				**433.80**	72.71	**31540.00**
	Basic rate for haulage of materials as per item no.17.4 page 141) Rs. 2.00								
	Average weight of earth 1.28 tonne / kg for 2X1.28X2.00=5.12	5.12							
	Add loading and unloading Vide item no.17.1 P.no.141	62.20							
		67.32							

	Average Weight of earth 1.28 t[illegible]/kg for 6x1.20x2.00=12.00	5.39 72.71							
19	KRIDL CHARGES 11%								~~550000.00~~
20	Third party inspection charges 1%								~~50000.00~~
21	Miscelleneous & Rounding off								
									5583.00
								Toatl Rs.	5000000.00

(Rupees:- Fifty Lakhs Only)

CERTIFICATE:

1 The work spot has been inspected me and the work is found to be necessary.
2 The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2013-2014.
3 The Provisions made in the estimate are quite necessary and adequate.
4 The area comes with in the BBMP limits.

Junior Engineer
Ward No. 07

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP
ಯಲಹಂಕ ಜಲಮಂಡಲ, ಬಿ.ಬಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು – 560092

Executive Engineer
Byataravanapura Division
BBMP
ಬೈ.ಬಿ.ಮ.ಪಾ. ಯಲಹಂಕ ವಲಯ
ಸಹಕಾರನಗರ, ಬೆಂಗಳೂರು-92.
24/12/2013

ADMINISTRATIVELY SANCTIONED FOR Rs. 50.00 lks

Rupees Fifty lakhs only

Under P-2178

Registered as EE ( ) No 9.....9.....
Subject to conditions contained in
enclosed memo EE ( ) No /9/....
Dt Estimate A/Sanctioned
Adl Comm (Y)/AS/733/13-14
dated 23/12/13 Rs 50.00 lks

Adl Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92.

Technical Sanction for Rs. 50.00 lakhs
Fifty lakhs only
under P2178
registered as EE No:...../.....Subject
to conditions contained enclosed memo.
No: 250 /13-14 Dt. 26-12-13

AE/JE

EE (BTP. Div.)